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	Application No.	Applicant(s)	
	10/826,161	ZENG ET AL.	
Notice of Allowability	Examiner	Art Unit	
	JEAN B. FLEURANTIN	2162	
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The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject t	plication. If not included will be mailed in due course. THIS	
1. This communication is responsive to 8/03/2007 and 8/06/2	<u>2207</u> .		
2. X The allowed claim(s) is/are <u>1-11,14-25,28-39 and 42-51</u> .			
 Acknowledgment is made of a claim for foreign priority unerty a) ☐ All b) ☐ Some* c) ☐ None of the: 	nder 35 U.S.C. § 119(a)-(d) or (f).		
1. Certified copies of the priority documents have	e been received.		
Certified copies of the priority documents have	e been received in Application No	•	
3. Copies of the certified copies of the priority do	cuments have been received in this	national stage application from the	
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements	
4. A SUBSTITUTE OATH OR DECLARATION must be subminFORMAL PATENT APPLICATION (PTO-152) which give			
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers		-948) attached	
1) hereto or 2) to Paper No./Mail Date		,	
(b) including changes required by the attached Examiner' Paper No./Mail Date		Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 Notice of Informal 5	Potent Application	
<u> </u>	5. Notice of Informal F	·	
 Notice of Draftperson's Patent Drawing Review (PTO-948) MInformation Disclosure Statements (PTO/SB/08), 	Paper No./Mail Da	6. ☐ Interview Summary (PTO-413), Paper No./Mail Date 7. ☐ Examiner's Amendment/Comment	
Paper No./Mail Date See Continuation Sheet		ent of Reasons for Allowance	
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 		ent of Measons for Allowance	
	9. Other	in Alati	
		Jean Bolte Fleurantin Patent Examiner Technology Center 2100	

Continuation of Attachment(s) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date: 7/23/2007 and 4/26/2007.

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DETAILED ACTION

1. This is in response to Applicant's communication on 8/03/2007 and 8/06/2007.

The following is the status of claims:

Claims 12-13, 26-27, 40-41 and 52 have been canceled.

Claims 1-11, 14-25, 28-39 and 42-51 remain pending for examination.

Information Disclosure Statement

The information disclosure statement (IDS) submitted on 7/23/2007 and 4/26/2007. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Response to Arguments

Applicant's arguments, filed 7/23/2007, with respect to the pending claims have been fully considered are persuasive, as a result, the amendment to the claims overcome the rejection. Therefore, the rejection of the last Office action has been withdrawn.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Ms. Shirley Anderson (Reg. No. 57,763) on April 25, 2007.

The application has been amended as follow:

In the claims,

Claim 14, line 1, change "A method as recited in claim 13, wherein the features" to - - A method as recited in claim 1, wherein the features - -.

Claim 15

Line 1, change "A computer-readable medium comprising" to - - A computer-readable storage medium comprising - -.

Line 15, change "wherein the indexing generates one or more enhanced documents." to "wherein the indexing generates one or more enhanced documents; - -.

Claim 16, line 1, change "The computer-readable medium of claim 15," to - - The computer-readable storage medium of claim 15, - -

Claim 17, line 1, change "The computer-readable medium of claim 15," to - - The computer-readable storage medium of claim 15, - -.

Claim 18, line 1, change "The computer-readable medium of claim 15," to - - The computer-readable storage medium of claim 15, - -.

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Claim 19, line 1, change "The computer-readable medium of claim 15," to - - The computer-readable storage medium of claim 15, - -.

Claim 20, line 1, change "The computer-readable medium of claim 15," to - - The computer-readable storage medium of claim 15, - -.

Claim 21, line 1, change "The computer-readable medium of claim 15," to - - The computer-readable storage medium of claim 15, - -.

Claim 22, line 1, change "The computer-readable medium of claim 15," to - - The computer-readable storage medium of claim 15, - -.

Claim 23, line 1, change "The computer-readable medium of claim 15," to - - The computer-readable storage medium of claim 15, - -.

Claim 24, line 1, change "The computer-readable medium of claim 15," to - - The computer-readable storage medium of claim 15, - -.

Claim 25, line 1, change "The computer-readable medium of claim 15," to - - The computer-readable storage medium of claim 15, - -.

Claim 28, line 1, change "The computer-readable medium of claim 15," to - - The computer-readable storage medium of claim 15, - -.

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Replace old versions of claim 43 with new versions

Claim 43

A computing device providing content propagation for enhanced document retrieval, the computing device comprising:

a processor; and

a memory coupled to the processor, the memory comprising computer-program instructions executable by the processor for:

identifying means to identify reference information directed to one or more documents, wherein the reference information identified from one or more sources of data, is independent of from a data source comprising the one or more documents;

extracting metadata that is proximally located to the reference information, which is surrounding the reference information and is semantically or contextually related to the reference information;

calculating relevance between respective features of the metadata to content of associated ones of the one or more documents:

indexing associated portions of the metadata with the relevance of features from the respective portions along with relevance scores, into original content of the document, for each document of the one or more documents,

wherein the indexing generates one or more enhanced documents;

analyzing means to analyze one or more enhanced documents to locate relevance information based on a search query;

ranking means to rank one or more enhanced document retrieval based on relevance scores; and communicating means to communicate ranked results and snippet descriptions for enhanced document, retrieval, based on the search query;

wherein the calculating means further comprise clustering means to cluster heterogeneous objects using inter-laver links to determine importance measurements for features of the heterogeneous objects, the heterogeneous object comprising a first cluster of similar queries and a second cluster of

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related documents, the similar queries having been identified in the search query log, the similar queries being associated search result(s) comprising the one or more documents, the related documents being identified in the search result(s) independent of whether individual ones of the related documents were selected by an end-user from the search results.

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REASONS FOR ALLOWANCE

With respect to claims 1-11, 14-25, 28-39 and 42-51 are allowed over the prior art of record.

The following is an examiner's statement of reasons for allowance:

With respect to claims 1, 15 and 29, the claimed features "extracting metadata that is proximally located to the reference information, which is surrounding the reference information and is semantically or contextually related to the reference information; calculating relevance between respective features of the metadata to content of associated ones of the one or more documents; determining missing end-user selection(s), where a missing end-user selection is an article in the search guery results that was not selected; indexing associated portions of the metadata with the relevance of features from the respective portions along with relevance scores, into original content of the documents; wherein determining missing end-user selection(s) further comprises clustering heterogeneous objects using inter-laver links to determine importance measurements for features of the heterogeneous objects, the heterogeneous object comprising a first cluster of similar queries and a second cluster of related documents" in conjunction with other elements of the independent claims would not have been found to be anticipated or obvious over the prior art made of record. With respect to claim 43, the claimed features "extracting metadata that is proximally located to the reference information, which is surrounding the reference information and is semantically or contextually related to the reference information; calculating relevance between respective features of the metadata to content of associated ones of the one or more documents; indexing associated portions of the metadata with the relevance of features from the respective portions along with relevance scores, into original content of the documents; wherein the calculating means further comprise clustering means to cluster heterogeneous objects using inter-layer links to determine importance measurements for features of the heterogeneous objects, the heterogeneous object comprising a first cluster of similar queries and a second cluster of related documents" in conjunction with other elements of the independent claims would not have been found to be anticipated or obvious over the prior art made of record.

The dependent claims, being definite, further limiting, and fully enabled by the specification are also allowed.

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The closest prior art, Hamandas et al., relates to Image retrieval by hypertext links.

Kirsch et al., U.S. Patent No. 5,845,278 relates to full text document searching and retrieval, performed over local and wide-area networks but fail to teach the above limitations.

LI, Yanhong, WO 97/49048 relates to a method of indexing documents includes obtaining a list of hyperlinks pointing to each document.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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CONTACT INFORMATION

2. Any inquiry concerning this communication or earlier communications from the examiner should

be directed to JEAN B. FLEURANTIN whose telephone number is 571 - 272-4035. The examiner can

normally be reached on 7:05 to 4:35.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

JOHN E BREENE can be reached on 571 – 272-4107. The fax phone number for the organization where

this application or proceeding is assigned is 703-308-6606.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained from

either Private PAIR or Public PAIR. Status information for unpublished applications is available through

Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC)

at 866-217-9197 (toll-free).

Jean Bolte Fleurantin

Patent Examiner

Technology Center 2100

August 3, 2007